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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/715,175

11/17/2003

William C. Paske

HO-P02511US1

4093

26271 7590 03/09/2007  
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EXAMINER

NGUYEN, HUONG Q

ART UNIT

PAPER NUMBER

3736

SHORTENED STATUTORY PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE
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3 MONTHS

03/09/2007

PAPER

**Please find below and/or attached an Office communication concerning this application or proceeding.**

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

## Office Action Summary

Application No.

10/715,175

Applicant(s)

PASKE ET AL.

Examiner

Helen Nguyen

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 04 January 2004.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 17-27 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 17-27 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 17 November 2003 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
  - ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- |                                                                                                            |                                                                                         |
|------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)                                | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                       | 5) <input type="checkbox"/> Notice of Informal Patent Application                       |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)<br>Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____                                                |

### DETAILED ACTION

1. This Office Action is responsive to the amendment filed 1/4/2007. Claims 17, and 23-27 are amended, overcoming the previous §112 rejections. **Claims 17-27** remain pending.

#### *Claim Rejections - 35 USC § 103*

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

3. **Claims 17-26** are rejected under 35 U.S.C. 103(a) as being unpatentable over Paske (US Pat No. 6231525) in view of Martin et al (US Pat No. 5340067) or Willems et al (US Pub No. 20040103745).

4. In regards to **Claim 17**, Paske discloses a method of determining the presence or absence of neural, muscular, soft tissue, bone or joint damage to the wrist complex comprising the steps of: (a) engaging contact points with at least one digit innervated by the ulnar nerve and at least one digit innervated by the median nerve, wherein the contact points are configured to transmit forces normal to their surface; (b) applying force on the contact points with said digits; and (c) measuring the force applied to at least two of said contact points to provide quantifiable outputs therefor, wherein the outputs are used to diagnose wrist complex diseases and injuries (Col.10, line 52-67; Col.11, line 1-5).

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5. However, Paske does not disclose the contact points as slick. Martin et al teach that surfaces that are not slick or have increased friction are easier to grip in the hand, thus decreasing the amount of force required to perform the required gripping task (Col.4: 21-25). Similarly, Willems et al teach that surfaces that are more slick or have decreased friction increase pressure and force on the contact points of the hand by reducing the leverage gained from mechanical advantage (§0006). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to make the contact points of Paske slick or frictionless as taught by Martin et al or Willems et al to prevent the test subject from using the advantage gained from a frictional surface to apply more force than the subject's digits are actually capable of, thus skewing the test results.

6. In regards to **Claim 18**, Paske discloses the quantifiable outputs representing the forces applied by at least two digits innervated by different nerves are displayed, such as in Figure 5b.

7. In regards to **Claim 19**, Paske discloses the outputs are displayed as a function selected from the group consisting of time, frequency, phase, and any combination thereof, such as in Figure 4a and 4b.

8. In regards to **Claim 20**, Paske discloses the measurements are processed by a computer for storage or immediate use (Col.6, line 66-67; Col.7, line 1).

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9. In regards to **Claim 21**, Paske discloses the diseases and injuries are diagnosed using a technique selected from the group consisting of pattern recognition, neural networks, frequency analysis, phase analysis, signature analysis, graphic displays, and any combination thereof (Col.9, line 1-7).

10. In regards to **Claim 22**, Paske discloses the measurements are compared to earlier measurements at a frequency selected from the group consisting of hourly, daily, weekly, yearly and any combination thereof to determine long term effects of said diseases or injuries (Col.5, line 7-10).

11. In regards to **Claim 23**, Paske as modified by Martin et al or Willems et al disclose the force is applied to said slick contact points for a prolonged period of time (Col.11, line 6-7).

12. In regards to **Claim 24**, Paske as modified by Martin et al or Willems et al disclose the force is applied repeatedly to said slick contact points (Col.7, line 6-10).

13. In regards to **Claim 25**, Paske as modified by Martin et al or Willems et al disclose a visual or audible signal is produced when force should be applied to said slick contact points (Paske Col.12, line 3-5).

14. In regards to **Claim 26**, Paske as modified by Martin et al or Willems et al disclose said slick contact points allow displacement measurements to be made (Col.4, line 65-67; Col.5, line 1-3).

15. **Claim 27** is rejected under 35 U.S.C. 103(a) as being unpatentable over Paske in view of Martin et al or Willems et al.

16. Paske in combination with Martin et al or Willems et al as modified above disclose applying a force normal to the surface of the slick contact points attached to a fixture (18) but do not explicitly disclose said normal force as 70% of the total force. However, because Paske as modified by discloses applying normal force and applicant has not expressed criticality in the specification as to the amount of normal force applied in relation to the total force, it seems that any amount of normal force would be sufficient in the operation of said invention. Therefore, it would have been prima facie obvious to one of ordinary skill in the art at the time the invention was made to modify the method of Paske such that the normal force applied to the surface of the contact points is at least 70% of the total force because such modification would have been considered a mere design consideration which fails to patentably distinguish over Paske.

***Response to Arguments***

17. Applicant's arguments with respect to Claims 17-27 have been considered but are moot in view of the new ground(s) of rejection.

*Conclusion*

18. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than **SIX MONTHS** from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Helen Nguyen whose telephone number is 571-272-8340. The examiner can normally be reached on Monday - Friday, 8 am - 5 pm.

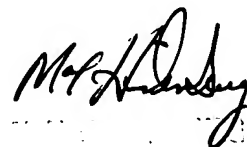
If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Max Hindenburg can be reached on 571-272-4726. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

HQN

3/6/2007

A handwritten signature in cursive script, appearing to be 'gen'.A handwritten signature in cursive script, appearing to be 'M. H. D. S. J.'.